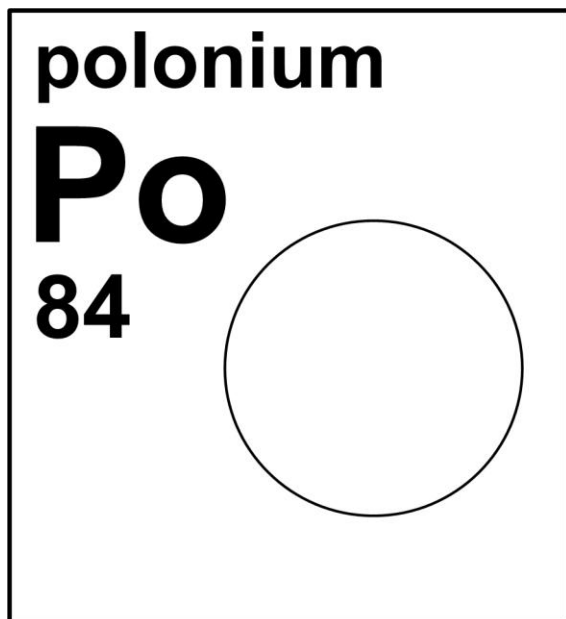





polonium



Stable isotope	Atomic mass	Mole fraction
(none)		

Half-life of radioactive isotope

Less than 1 second 
 Between 1 second and 1 hour 
 Greater than 1 hour 



Important applications of stable and/or radioactive isotopes

Isotopes in industry

1. Some anti-static brushes contain up to 500 microcuries (20 MBq) of ^{210}Po as a source of charged particles for neutralizing static electricity in materials like photographic film.

Isotopes in nuclear industry

1. When it is mixed or alloyed with beryllium, polonium can be a neutron source: beryllium releases a neutron upon absorption of an alpha particle that is supplied by ^{210}Po . It has been used in this capacity as a neutron trigger or initiator for nuclear weapons.
2. Because it emits many alpha particles, which are stopped within a very short distance in dense media and release their energy, ^{210}Po has been used as a lightweight heat source to power thermoelectric cells in artificial satellites; for instance, ^{210}Po heat source was also used in each of the Lunokhod rovers deployed on the surface of the Moon, to keep their internal components warm during the lunar nights

**Applications of polonium isotopes are still being researched and this page will be updated shortly. **